LCLAIM:

 A method of transporting packets from a first voice switch coupled to a communication network, comprising:

receiving, at the first voice switch, information bearing packets from a first subscriber intended for routing to a second subscriber;

multiplexing said packets onto a transport stream intended for a second voice switch serving said second subscriber, responsive to a determination that said first switch and said second switch are compatible; and

enabling the communication of said transport stream to said communication network.

- 2. The method of claim 1, wherein said step of enabling further comprises creating a packet transport medium.
- The method of claim 2, wherein said step of creating a packet transport medium further comprises creating an Asynchronous Transfer Mode (ATM) physical layer over a Digital Signal Level Zero (DS0) communication link.
- The method of claim 3, wherein said step of creating a packet transport medium further comprises creating an ATM logical path over said DS0 link.
- The method of claim 3, wherein said step of creating a packet transport medium further comprises creating an Asynchronous Transfer Adaptation Layer 2 (AAL2) layer over said DS0 link.
- The method of claim 1 wherein said transport stream comprise AAL2 packets.
- The method of claim 6, wherein said AAL2 packet comprises:
 a caller identifier field for identifying a caller.

- The method of claim 6, wherein said AAL2 packet comprises:
 a length indicator field for identifying the size of a payload.
- The method of claim 7, wherein said AAL2 packet comprises:
 a header error check field for identifying errors in the call identifier
- The method of claim 6, wherein said AAL2 packet comprises:
 a payload field for transporting said packets.
- 11. The method of claim 6, wherein said AAL2 packet comprises:
- a User-to-User Indicator field for providing a link between a CPS sublayer and a Service Specific Convergence sub-layer (SSCS) of the AAL2 packet.
- 12. The method of claim 1, wherein said packets are compressed voice packets.
- 13. The method of claim 1, wherein at least one of said voice switches is a private branch exchange (PBX).
- 14. The method of claim 1, wherein at least one of said first and second switches is a local exchange.
- 15. A method of transporting voice traffic between a first voice switch, over a Public Switched Telephone Network (PSTN), to a second voice switch, comprises:
- receiving, at the first voice switch servicing a first subscriber, an analog voice call from the first subscriber for routing to a second subscriber; digitizing said voice traffic:
 - packetizing said digitized traffic:
 - compressing said packetized traffic;

multiplexing said packets onto a transport stream intended for a second voice switch serving said second subscriber, responsive to a determination that said first switch and said second switch are compatible; and

enabling the communication of said transport stream to said PSTN.

- 16. The method of claim 15, wherein said step of enabling further comprises creating a packet transport medium.
- 17. The method of claim 16, wherein said step of creating a packet transport medium further comprises creating an Asynchronous Transfer Mode (ATM) physical layer over a Digital Signal Level Zero (DS0) communication link.
- 18. The method of claim 17, wherein said step of creating a packet transport medium further comprises creating an ATM logical path over said DS0 link.
- 19. The method of claim 17, wherein said step of creating a packet transport medium further comprises creating an Asynchronous Transfer Adaptation Layer 2 (AAL2) layer over said DS0 link.
- The method of claim 15, wherein said transport stream comprise AAL2 packets.
- 21. The method of claim 20, wherein said AAL2 packets comprises at least one of:
 - a call identifier field for identifying a caller;
 - a length indicator field for identifying the size of a payload;
- a header error check field for identifying errors in the call identifier field: and
 - a payload field for transporting said packets.

a User-to-User Indicator field for providing a link between a CPS sublayer and a Service Specific Convergence sub-layer (SSCS) of the AAL2 packet.

- 22. The method of claim 15, wherein at least one of said voice switches is a private branch exchange (PBX).
- 23. The method of claim 15, wherein at least one of said first and second switches is a local exchange.
- 24. An apparatus comprising:

a first voice switch for receiving information bearing packets from a first subscriber intended for routing to a second subscriber over a network:

said first switch, in response to a determination that said first switch and a respective second voice switch are compatible, multiplexing said packets onto a transport stream intended for said second voice switch; and enabling the communication of said transport stream to said communication network.

- 25. The apparatus of claim 24, wherein said first switch creates a packet transport medium between said first and second switch.
- 26. The apparatus of claim 25, wherein said first voice switch creates an Asynchronous Transfer Mode (ATM) physical layer over a Digital Signal Level Zero (DS0) for transporting said packets on said packet transport medium.
- 27. The apparatus of claim 26, wherein said first voice switch creates an Asynchronous Transfer Mode Adaptation Layer 2 (AAL2) layer over said DS0 for transporting said packets on said packet transport medium.
- 28. The apparatus of claim 24, wherein said transport stream comprise AAL2 packets.

- 29. The apparatus of claim 28, wherein said AAL2 packet comprises at least one of :
 - a call identifier field for identifying a caller;
 - a length indicator field for identifying the size of a payload;
- a header error check field for identifying errors in the call identifier field;
 - a payload field for transporting said packets; and
- a User-to-User Indicator field for providing a link between a CPS sublayer and a Service Specific Convergence sub-layer (SSCS) of the AAL2 packet.
- 30. The apparatus of claim 24, wherein said packets are compressed voice packets.
- 31. The apparatus of claim 24, wherein at least one of said voice switches is a private branch exchange (PBX).
- 32. The apparatus of claim 24, wherein at least one of said voice switches is a local exchange switch.